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L2	5671	709/223,225.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 10:31
L3	90	709/223,225.ccls. and ((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3) same (manag\$4) same (remote\$2)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 10:33
L4	0	709/223,225.ccls. and ((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3) same (manag\$4) same (remote\$2) same (web) adj (content or data)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 10:34
L5	17	709/223,225.ccls. and ((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3) same (manag\$4) same (remote\$2) same (web)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 10:34
S1	100504	((client or computer or PC) with server)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:13
S2	75351	((client or computer or PC or device\$1) with server) same (network or WAN)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:38
S3	9317	((client or computer or PC or device\$1) with server) same (network or WAN) same (intranet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:18
S4	22	((client or computer or PC or device\$1) with server) same (network or WAN) same (intranet) same ((software or agent) with embed\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:22
S5	50	((client or computer or PC or device\$1) with server) same (network or WAN) same (group with chat\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:26
S6	4	((client or computer or PC or device\$1) with server) same (network or WAN) same (group with chat\$3)) and @pd < "20010321"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:47

S7	75709	((client or computer or PC or device\$1) with server) same (network or intranet)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:38
S8	32417	((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:44
S9	304	((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3) same (shar\$3 with resourc\$2)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/26 14:46
S10	111	((client or computer or PC or device\$1) with server) same (network or intranet) same ((client or computer or PC or device\$1) with communicat\$3) same (shar\$3 with resourc\$2)) and @pd < "20010321"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/28 08:43
S11	2744	"web content"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/28 08:44
S12	29	embedded near "web content"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/28 08:44
S13	1	"5796742".PN. and @pd < "20010321"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/28 08:45
S14	2	(embedded near "web content") and @pd < "20010321"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/07/28 08:45
S15	23	(agent) near5 (permission or rule or parameter) near5 (web) near5 (content or data or information)	US-PGPUB; USPAT; EPO	OR	ON	2005/02/18 19:05
S16	3	@ay<"2000" and (agent) near5 (permission or rule or parameter) near5 (web) near5 (content or data or information)	US-PGPUB; USPAT; EPO	OR	ON	2005/02/18 19:05


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1 [Web and e-business application: Content management on server farm with layer-7 routing](#)

Mon-Yen Luo, Chu-Sing Yang, Chun-Wei Tseng

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

 Full text available: [pdf\(540.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service replication on a server farm is becoming increasingly widespread as the explosive growth of the Web is straining the architecture of many Internet sites. Layer-7 routing, routing packets based on requested content, has been recognized as a powerful approach to distribute workload among these server farms. However, little attention has been given to how to configure content-related knowledge into the layer-7 routing mechanisms. In addition, the used data structures for storing content-rel ...

2 [Applications: Dynamic coordination of information management services for processing dynamic web content](#)

In-Young Ko, Ke-Thia Yao, Robert Neches

 May 2002 **Proceedings of the 11th international conference on World Wide Web**

 Full text available: [pdf\(1.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic Web content provides us with time-sensitive and continuously changing data. To glean up-to-date information, users need to regularly browse, collect and analyze this Web content. Without proper tool support this information management task is tedious, time-consuming and error prone, especially when the quantity of the dynamic Web content is large, when many information management services are needed to analyze it, and when underlying services/network are not completely reliable. This pap ...

Keywords: dynamic service coordination, dynamic web content, scalable component-based software systems, semantic interoperability, web information management systems

3 [Posters: Next generation web technologies in content management](#)

Norbeto Fernández-García, Luis Sánchez-Fernandez, Jesús Villamor-Lugo

 May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

 Full text available: [pdf\(42.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of information and communication technologies and the expansion of the


Internet means that, nowadays, there are huge amounts of information available via these emergent media. A number of content management systems have appeared which aim to support the management of these large amounts of content. Most of these systems do not support collaboration among several, distributed sources of managed content. In this paper we present a proposal for an architecture, Infoflex, for the effi ...

Keywords: content management, semantic web, web services

4 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available:  [pdf\(1.41 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

5 Web-based tools, systems and environments: Software configuration, distribution, and deployment of web-services

Rainer Anzböck, Schahram Dustdar, Harald Gall

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Full text available:  [pdf\(519.92 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web-Services can be seen as a newly emerging distributed computing model for the Web. They cater for the need to establish business-to-business (B2B) interactions on the Web. Web-Services consider a loosely coupled component model encapsulating business logic and interact with other components using XML protocols. Based on one case study, this paper discusses architectural issues and requirements for software configuration, distribution, and deployment of web-services.

Keywords: software architecture, software distribution environments, web-services

6 Collaborative proxy system for distributed Web content transcoding

Valeria Cardellini, Philip S. Yu, Yun-Wu Huang

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  [pdf\(251.02 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Embedded web papers: An environment for collaborative content acquisition and editing by coordinated ubiquitous devices

Yutaka Kidawara, Tomoyuki Uchiyama, Katsumi Tanaka

May 2005 **Special interest tracks and posters of the 14th international conference on World Wide Web**

Full text available:  [pdf\(1.53 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Digital content is not only stored by servers on the Internet, but also on various embedded devices belonging to ubiquitous networks. In this paper, we propose a content processing mechanism for use in an environment enabling collaborative acquisition of embedded digital content in real-world situations. We have developed a network management device that makes it possible to acquire embedded content using coordinated ubiquitous devices. The management device actively configures a network that in ...

Keywords: RFID, embedded content, functional web, multiple device operating, ubiquitous computing, ubiquitous network

8 Enabling dynamic content caching for database-driven web sites

K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakant Agrawal

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available:  [pdf\(319.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web performance is a key differentiation among content providers. Snafus and slowdowns at major web sites demonstrate the difficulty that companies face trying to scale to a large amount of web traffic. One solution to this problem is to store web content at server-side and edge-caches for fast delivery to the end users. However, for many e-commerce sites, web pages are created dynamically based on the current state of business processes, represented in application servers and *databases*

Keywords: JDBC, application server, database driven web site, dynamic content caching, invalidation, web acceleration

9 A fragment-based approach for efficiently creating dynamic web content

Jim Challenger, Paul Dantzig, Arun Iyengar, Karen Witting

May 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 2

Full text available:  [pdf\(2.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article presents a publishing system for efficiently creating dynamic Web content. Complex Web pages are constructed from simpler fragments. Fragments may recursively embed other fragments. Relationships between Web pages and fragments are represented by object dependence graphs. We present algorithms for efficiently detecting and updating Web pages affected after one or more fragments change. We also present algorithms for publishing sets of Web pages consistently; different algorithms are ...

Keywords: Caching, Web, Web performance, dynamic content, fragments, publishing

10 Keynotes: Architecture and design of high volume web sites: (a brief history of IBM sport and event web sites)

Paul Dantzig

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Architecting and designing high volume Web sites has changed immensely over the last six years. These changes include the availability of inexpensive Pentium based servers, Linux, Java applications, commodity switches, connection management and caching engines, bandwidth price reductions, content distribution services, and many others. This paper describes the evolution of the best practices within IBM in architecting sites that handle

millions of page views per day. Discussed is the transition ...

Keywords: content distribution, content management, java messaging services, proxy caching, publish and subscribe, web serving

11 Versioning and fragmentation: Fine-grained, structured configuration management for web projects

Tien Nhut Nguyen, Ethan Vincent Munson, Cheng Thao

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available:  [pdf\(698.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Researchers in Web engineering have regularly noted that existing Web application development environments provide little support for managing the evolution of Web applications. Key limitations of Web development environments include line-oriented change models that inadequately represent Web document semantics and in ability to model changes to link structure or the set of objects making up the Web application. Developers may find it difficult to grasp how the overall structure of the Web applica ...

Keywords: software configuration management, version control, web engineering

12 Performance: Cooperative leases: scalable consistency maintenance in content distribution networks

Anoop Ninan, Purushottam Kulkarni, Prashant Shenoy, Krithi Ramamritham, Renu Tewari

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available:  [pdf\(201.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we argue that cache consistency mechanisms designed for stand-alone proxies do not scale to the large number of proxies in a content distribution network and are not flexible enough to allow consistency guarantees to be tailored to object needs. To meet the twin challenges of scalability and flexibility, we introduce the notion of cooperative consistency along with a mechanism, called *cooperative leases*, to achieve it. By supporting &Dgr;-consistency semantics and by using ...

Keywords: content distribution networks, data consistency, data dissemination, dynamic data, leases, pullC, push, scalability, world wide web

13 CDNs and caching: Evaluating a new approach to strong web cache consistency with snapshots of collected content

Mikhail Mikhailov, Craig E. Wills

May 2003 **Proceedings of the 12th international conference on World Wide Web**

Full text available:  [pdf\(115.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The problem of Web cache consistency continues to be an important one. Current Web caches use heuristic-based policies for determining the freshness of cached objects, often forcing content providers to unnecessarily mark their content as uncacheable simply to retain control over it. Server-driven invalidation has been proposed as a mechanism for providing strong cache consistency for Web objects, but it requires servers to maintain per-client state even for infrequently changing objects. We pro ...

Keywords: cache consistency, change characteristics, collected content, object

composition, object relationships, server invalidation, web caching

14 Enabling full service surrogates using the portable channel representation


Micah Beck, Terry Moore, Leif Abrahamsson, Christophe Achouiantz, Patrick Johansson
April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  [pdf\(282.92 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: content distribution, dynamic content, mirroring, portability, replication, surrogate, web server

15 Content management: Design and implementation of a distributed content management system

C. D. Cranor, R. Ethington, A. Sehgal, D. Shur, C. Sreenan, J. E. van der Merwe
June 2003 **Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video**

Full text available:  [pdf\(98.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The convergence of advances in storage, encoding, and networking technologies has brought us to an environment where huge amounts of continuous media content is routinely stored and exchanged between network enabled devices. Keeping track of (or managing) such content remains challenging due to the sheer volume of data. Storing "live" continuous media (such as TV or radio content) adds to the complexity in that this content has no well defined start or end and is therefore cumbersome to deal with ...

Keywords: continuous media storage, distributed content management

16 Broadcast and on-line cultural heritage: Copyright protection and management and a web based library for digital images of the Hellenic cultural heritage

Dimitris K. Tsolis, George K. Tsolis, Emmanouil G. Karatzas, Theodore S. Papatheodorou
November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**


Full text available:  [pdf\(358.69 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The main issue addressed in this paper is the design and implementation of an Advanced Digital Image Repository, which offers specialized services and a Dedicated User Interface for the protection and management of the Intellectual Property Rights of digitized material. In addition, another main research area of this contribution is the implementation of a Web Based Library, supported by advanced technologies, for the proper presentation of the digital cultural content. The work described in this ...

Keywords: copyright protection, databases, digital web archives, information systems, java applets, watermarking

17 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali
September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  [pdf\(524.80 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of

applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

18 Technical columns: Distributed computing research issues in grid computing

Henri Casanova

September 2002 **ACM SIGACT News**, Volume 33 Issue 3

Full text available:  pdf(1.99 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

Ensembles of distributed, heterogeneous resources, or *Computational Grids*, have emerged as popular platforms for deploying large-scale and resource-intensive applications. Large collaborative efforts are currently underway to provide the necessary software infrastructure. *Grid computing* raises challenging issues in many areas of computer science, and especially in the area of *distributed computing*, as Computational Grids cover increasingly large networks and span many organi ...

19 P5: Issues of content and structure for a multilingual web site

Shihong Huang, Scott Tilley

October 2001 **Proceedings of the 19th annual international conference on Computer documentation**

Full text available:  pdf(391.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most content on the Web today is in English, but the majority of the Earth's peoples speak languages other than English. To reach a wider audience, future Web sites will have to be multilingual, changing a Web site from one that is American-centric and single-language to one that is globally-oriented and multilingual. While the challenges in creating and maintaining a high-quality Web site in a single language are considerable, working with multiple languages simultaneously creates special chall ...

Keywords: content management, multilingua, software engineering, structure, web site

20 A client-aware dispatching algorithm for web clusters providing multiple services

Emiliano Casalicchio, Michele Colajanni

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Full text available:  pdf(311.46 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: clusters, dispatching algorithms, load balancing

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